

89-242840/34	A97 D25	COL 19.01.88 *EP -328-880-A	A(12-W12A, 12-W12B) D(11-A, 11-A1B1, 11-B3, 11-B11, 11-B21, 11-D3)
COLGATE PALMOLIVE CO 19.01.88-US-145427 (23.08.89) C11d-11 C11d-17 Built synthetic organic detergent compns. - comprising high water-content, rod-shaped extrudates of synthetic detergent, hydratable builder and water C89-108080 R(AT BE CH DE ES FR GB GR IT LI LU NL SE)			base) (II) (esp. 25-50% Na tripolyphosphate, 8-20% Na ₂ CO ₃ , and 0-8% Na silicate), and 20-35% esp. 20-30% water with wt. ratio (II):(I)=1.5-5:1, and (II):water. Suitable detergent compns. comprise patties formed from the adhering rods above, and may also contain 0.2-2% Na polyacrylate.
Built synthetic organic detergent compsn. comprises multiple high water content rod-shaped extrudates of synthetic organic detergent (I), hydratable builder salt(s) (II), water and opt. conventional adjuvants.			<u>CLAIMED PREPARATION</u> Prepn. comprises mixing the components, pref. kneading extruding at low temps. pressures through a worm-in-barrel extruder and a screen, then pref. ageing to allow partial drying and shearing to facilitate breakage into the correct lengths.
<u>ADVANTAGE</u> The compsns. can be made with relatively inexpensive, easy to operate equipment which is not energy intensive. The compsns. are not dusty, and can be formed into patties (e.g. single charge detergent prods) which are easily broken up, and which dissolve rapidly in wash water.			
<u>PREFERRED COMPOSITIONS</u> Equiv. dia 0.5-3mm, length 1-10 mm, and ratio length; equiv. dia 1-20:1. Pref. compsns. contain (by wt) 10-30% (I) (esp. 15-25% Na linear (12-14C) alkylbenzene sulphonate), 30-70% (anhyd.			<u>EXAMPLE</u> A mixt. of (by wt) 20% Na linear tridecylbenzene sulphonate, 34.3% Na tripolyphosphate, 4.3% Na silicate, 14.3% soda ash, 25.8 % (of total wt) water, and minors (qs) was mixed, kneaded, and extruded at 15-25°C/0.3 kg/cm ² in a screw-in-barrel. (18pp478BKPDwgNo0/4) (E) ISR: FR2138912 US2941948 FR1576756 US3434974 US2875155 FR2372890 GB1191722 RP-328880-A